SUBJECT INDEX TO VOLUME 21—ONCOLOGY, RADIATION THERAPY, PHYSICS AND BIOLOGY

Oncology

Carcinoma of the tongue in Norway and Wisconsin—I—Incidence and prognosis related to sex and age 155
Carcinoma of the tongue in Norway and Wisconsin—II—Influence of site and clinical stage on local control of the tumor 209
Morphologic classification of non-Hodgkin's lymphoma—I—Retrospective analysis using the Kiel classification 289
Combined effects of mining and smoking in the causation of lung carcinoma in northern Sweden . . 305
Carcinoma of the uterine cervix—Incidence and mortality in the Stockholm–Gotland region 315
Extranodal non-Hodgkin's lymphoma in the head and neck 393
Invasive squamous cell carcinoma of the uterine cervix—VI—Prediction value of non-keratinizing, parakeratotic and orthokeratotic cell forms and clinical staging 401
Long-term follow-up and prognostic factors in ovarian carcinoma—The Radiumhemmet series 1958 to 1973 413

Radiation therapy

Glottic carcinoma limited to the vocal cords 33
Carcinomas of the esophagus with synchronous or metachronous primary carcinoma in other organs 39
Results of radiation therapy for vulvar carcinoma . 45
Tolerance of the central nervous system to photon irradiation—Endocrine complications 49
Invasive squamous cell carcinoma of the uterine cervix—V—Late local recurrences after radiation therapy 81
Carcinoma of the nasopharynx—Results of radiation therapy 87
Radical irradiation in the primary management of localized breast carcinoma 97
Radiation therapy of recurrences of carcinoma of the rectum and sigmoid after surgery 105
Radiation retinopathy in diabetes mellitus 111
Radiation therapy of non-Hodgkin's lymphoma stages I and II 145
Correlation between initial salivary flow rate and radiation dose in the production of xerostomia . 151
Carcinoma of the tongue in Norway and Wisconsin—I—Incidence and prognosis related to sex and age 155
Carcinoma of the ovary in stage III—Effects of postoperative chemotherapy, radiation therapy and repeat laparotomy 181
Radiation therapy in primary carcinoma of the vagina 191
Radiation therapy in the management of primary carcinoma of the vagina 195
Carcinoma of the tongue in Norway and Wisconsin—II–Influence of site and clinical stage on local control of the tumor 209
Influence of treatment and tumor grade on the prognosis of stage II carcinoma of the endometrium . 225
Microwave-induced hyperthermia and ionizing radiation 241
Primary hypothyroidism as a complication after treatment of tumours of the head and neck . . . 299
Enhancement of concomitant immunity after radiation therapy and immunotherapy in a syngeneic murine tumour system 345
Mammalian spermatogenesis as a new system for biologic dosimetry of ionizing radiation 349
Combined irradiation and three-drug chemotherapy in inoperable colorectal carcinoma 369
Preoperative irradiation with high-dose fractionation in adenocarcinoma of the rectum and rectosigmoid 373
Radiation therapy of early glottic carcinoma 381
Interstitial radiation therapeutic techniques at Mount Vernon Hospital 385
Extranodal non-Hodgkin's lymphoma in the head and neck 393
Chemotherapy and cyclic radiation therapy in advanced non-small cell lung carcinoma 407
Mechanism of total body irradiation in lymphoma . 421

Hormone or chemotherapy

Resistance to prolonged irradiation in mice influenced by thyroid hormones and chemical radiation protectors 115
Carcinoma of the ovary in stage III—Effects of postoperative chemotherapy, radiation therapy and repeat laparotomy 181
Influence of adjuvant chemotherapy on the blood lymphocyte population in operable breast carcinoma 217
Combined irradiation and three-drug chemotherapy in inoperable colorectal carcinoma 369
Chemotherapy and cyclic radiation therapy in advanced non-small cell lung carcinoma 407

Nuclear therapy and experiments

Neoplasms in ovaries of CBA mice ^{90}Sr-treated as foetuses 121

Radiation physics

Dosimetric intercomparison at the Scandinavian radiation therapy centres—I—Absorbed dose intercomparison 1

SUBJECT INDEX TO VOLUME 21—ONCOLOGY, RADIATION THERAPY, PHYSICS AND BIOLOGY

Oncology

Carcinoma of the tongue in Norway and Wisconsin—I—Incidence and prognosis related to sex and age 155
Carcinoma of the tongue in Norway and Wisconsin—II—Influence of site and clinical stage on local control of the tumor 209
Morphologic classification of non-Hodgkin's lymphoma—I—Retrospective analysis using the Kiel classification 289
Combined effects of mining and smoking in the causation of lung carcinoma in northern Sweden . . 305
Carcinoma of the uterine cervix—Incidence and mortality in the Stockholm–Gotland region 315
Extranodal non-Hodgkin's lymphoma in the head and neck 393
Invasive squamous cell carcinoma of the uterine cervix—VI—Prediction value of non-keratinizing, parakeratotic and orthokeratotic cell forms and clinical staging 401
Long-term follow-up and prognostic factors in ovarian carcinoma—The Radiumhemmet series 1958 to 1973 413

Radiation therapy

Glottic carcinoma limited to the vocal cords 33
Carcinomas of the esophagus with synchronous or metachronous primary carcinoma in other organs 39
Results of radiation therapy for vulvar carcinoma . 45
Tolerance of the central nervous system to photon irradiation—Endocrine complications 49
Invasive squamous cell carcinoma of the uterine cervix—V—Late local recurrences after radiation therapy 81
Carcinoma of the nasopharynx—Results of radiation therapy 87
Radical irradiation in the primary management of localized breast carcinoma 97
Radiation therapy of recurrences of carcinoma of the rectum and sigmoid after surgery 105
Radiation retinopathy in diabetes mellitus 111
Radiation therapy of non-Hodgkin's lymphoma stages I and II 145
Correlation between initial salivary flow rate and radiation dose in the production of xerostomia . 151
Carcinoma of the tongue in Norway and Wisconsin—I—Incidence and prognosis related to sex and age 155
Carcinoma of the ovary in stage III—Effects of postoperative chemotherapy, radiation therapy and repeat laparotomy 181
Radiation therapy in primary carcinoma of the vagina 191
Radiation therapy in the management of primary carcinoma of the vagina 195
Carcinoma of the tongue in Norway and Wisconsin—II–Influence of site and clinical stage on local control of the tumor 209
Influence of treatment and tumor grade on the prognosis of stage II carcinoma of the endometrium . 225
Microwave-induced hyperthermia and ionizing radiation 241
Primary hypothyroidism as a complication after treatment of tumours of the head and neck . . . 299
Enhancement of concomitant immunity after radiation therapy and immunotherapy in a syngeneic murine tumour system 345
Mammalian spermatogenesis as a new system for biologic dosimetry of ionizing radiation 349
Combined irradiation and three-drug chemotherapy in inoperable colorectal carcinoma 369
Preoperative irradiation with high-dose fractionation in adenocarcinoma of the rectum and rectosigmoid 373
Radiation therapy of early glottic carcinoma 381
Interstitial radiation therapeutic techniques at Mount Vernon Hospital 385
Extranodal non-Hodgkin's lymphoma in the head and neck 393
Chemotherapy and cyclic radiation therapy in advanced non-small cell lung carcinoma 407
Mechanism of total body irradiation in lymphoma . 421

Hormone or chemotherapy

Resistance to prolonged irradiation in mice influenced by thyroid hormones and chemical radiation protectors 115
Carcinoma of the ovary in stage III—Effects of postoperative chemotherapy, radiation therapy and repeat laparotomy 181
Influence of adjuvant chemotherapy on the blood lymphocyte population in operable breast carcinoma 217
Combined irradiation and three-drug chemotherapy in inoperable colorectal carcinoma 369
Chemotherapy and cyclic radiation therapy in advanced non-small cell lung carcinoma 407

Nuclear therapy and experiments

Neoplasms in ovaries of CBA mice ^{90}Sr-treated as foetuses 121

Radiation physics

Dosimetric intercomparison at the Scandinavian radiation therapy centres—I—Absorbed dose intercomparison 1

Ferrous sulphate dosimeter for control of ionization chamber dosimetry of electron and ^{60}Co gamma beams 139
Intercomparison of Nordic therapy level exposure secondary standards for ^{60}Co gamma radiation . 203
Comparison of neutron therapy beams produced by 50 MeV deuterons and 65 MeV protons on beryllium 281
Liquid ionization chamber for absorbed dose determinations in photon and electron beams 359
Physical and biologic aspects on the optimum choice of radiation modality 469

Radiation biology

Proliferation kinetics and specific behaviour of G_2 cells on the Bp8 mouse ascites sarcoma in vivo . 17
Dose response experiments using the mouse tail model 27
Modification of small intestine lysosomal enzymes after irradiation at different times of the day . . 61
Effect of hyperthermia on a neurogenic rat cell line (BT_4A) in vivo 67
Resistance to prolonged irradiation in mice influenced by thyroid hormones and chemical radiation protectors 115
Neoplasms in ovaries of CBA mice ^{90}Sr-treated as foetuses 121
Influence of sera from tumor bearing mice on immune reaction 129
Radiation-dose dependence of the formation of micronuclei in misonidazole treated cell cultures . 133
Irradiation at different times of the day—Morphology and kinetics of the small intestine 169
Peripheral reticulocytes as biologic dosimetry of ionizing radiation—Experiments in the rabbit 177
Effects of interferon on growth rate and radiation sensitivity of cultured, human glioma cells . . . 231
Growth kinetics of Bp8 mouse ascites sarcoma after single dose whole body irradiation—I—Relative and total numbers of cells in various parts of the cell cycle 255
Permeability of the blood-brain barrier in the rat after local proton irradiation 267
Modifications in the brush border enzymes of the small intestine after irradiation at different times of the day 273
Toxicity and radiation protective effect of WR-77913 in BALB/c mice 319
Radiation resistance in mice increased following chronic application of Li_2CO_3 325
Growth kinetics of Bp8 mouse ascites sarcoma after single dose whole body irradiation—II—Progression of cells through the cell cycle 331
Enhancement of concomitant immunity after radiation therapy and immunotherapy in a syngeneic murine tumour system 345
Mammalian spermatogenesis as a new system for biologic dosimetry of ionizing irradiation 349
Mechanism of total body irradiation in lymphoma . 421
Sensitivity to radiations of Mg^{2+} and $(Ca^{2+}+Mg^{2+})$ ATPase activities associated with erythrocyte membrane fragments 427
Effect of low dose laser on the chorioallantoic culture of retinal pigment cells 433
Behaviour of the Bp8 mouse ascites sarcoma after partial body irradiation 439
Ribosome changes induced by irradiation of isolated rat liver in vitro 449
Effect of ionizing radiation and low temperature on L5178Y-R and L5178Y-S cells—I—DNA strand breaks induced by decays of incorporated ^{3}H and ^{125}I 455

Radiation injury

Radiation retinopathy in diabetes mellitus 111
Correlation between initial salivary flow rate and radiation dose in the production of xerostomia . 151

Tumour classification

Morphologic classification of non-Hodgkin's lymphoma—I—Retrospective analysis using the Kiel classification 289
Invasive squamous cell carcinoma of the uterine cervix—VI—Prediction value of non-keratinizing, parakeratotic and orthokeratotic cell forms and clinical staging 401

Technique

Diaphanography—Mechanism responsible for the images 11
Technique for microwave-induced hyperthermia in superficial human tumours 235
Starch microsphere induced small intestinal ischaemia—Blood flow and morphologic investigations of late effects 353

Miscellaneous

Starch microsphere induced small intestinal ischaemia—Blood flow and morphologic investigations of late effects 353
Temporary intestinal ischaemia induced by proximal mesenteric artery occlusion 461

Book reviews

Aspiration biopsy cytology—Part 2—Cytology of infradiaphragmatic organs 79
Radiotherapy treatment planning 79
Irradiation and thyroid disease—Dosimetric, clinical and carcinogenic aspects 207

LIST OF AUTHORS

Abitbol A. 407
Alderson A. M. 385
Ambinder J. 407
Ando Y. 381

Ballestrin G. 427
Balzi M. 169, 273
Banerjee A. K. 111
Baral E. 217
Bartoníčková A. 325
Becciolini A. 61, 169, 273
Benediktsson G. 231
Bennett M. H. 385
Billet D. 407
Bini R. 273
Björkholm E. 315, 413
Blomgren H. 217
Boninsegna A. 427
Brahme A. 17, 469
Branca D. 427
Brennhovd I. O. 155, 209

Calzavara F. 427
Cao S. 17, 255, 331, 439
Carcangiu M. L. 87
Cater B. R. 27
Cauzzo C. 427
Cellai E. 87
Chan Y. 433
Chaudhuri J. P. 177
Chiavacci A. 87
Ciatto S. 105
Cinotti S. 169
Connor A. M. 319
Cremonini D. 61, 169

Daal van W. A. J. 299
Dahl O. 67
Damber L. 305
Deneufbourg J.-M. 345
Denham J. W. 385
Dhir S. P. 111
Dokiya T. 381
Drighi E. 61

Einhorn N. 413
Elte J. W. F. 299

Fabrica D. 169
Frölich M. 299
Fullerton G. D. 151

Giachè V. 61, 273
Glimelius B. 145, 289, 373
Göhde W. 349
Graffman S. 373
Grigsby P. 319

Hacker U. 349
Hagberg H. 145
Harvei S. 155
Hashimoto S. 381
Hordijk G. J. 299
Horiuchi J. 39, 393
Hošek B. 115
Hudson F. R. 385

Järvinen H. 203
Johanson K. J. 455
Johansson K.-A. 1, 139, 359
Johnsson J.-E. 181
Jong de J. M. A. 299
Joshi A. V. 111
Jurin M. 129

Kaalhus O. 155, 209
Kamiyama R. 39, 393
Kautska J. 115
Kirk J. 27
Kjellén E. 235, 241
Kondo M. 381
Koschel K. 49
Kramer S. 97
Krebs I. 413

Lam S. T. L. 433
Landberg T. 235, 241
Lanini A. 61, 273
Larsson L.-G. 305
Lekven J. 461
Lindborg L. 203
Lindholm C.-E. 235, 241
Lojek A. 115
Lomanov M. 267
Lote K. 353, 461
Lukjashin V. 267
Lundberg M. 81
Lundqvist H. 267

Maase von der H. 369
Magnusson K. 369
Mansfield C. M. 97
Marsilii G. 449
Masi A. 449
Matsubara S. 393
Mattsson L. O. 1, 139
Mendiondo O. A. 319
Messerschmidt O. 177
Meulders J. P. 281
Midander J. 133
Minakova E. 267
Mira J. G. 151
Mišustová J. 115
Miyamoto H. 381
Moran R. 407
Murakami Y. 381
Murray R. M. L. 49
Myking A. O. 353

Nederman T. 231
Nilsson A. 121
Nilsson B. 413
Nilsson P. 235, 241

Octave-Prignot M. 281
Okuyama T. 393
Olmi P. 87
Ostyn F. 33

Pacini P. 105
Påhlman L. 373
Patanaphan V. 225
Perry A. M. 27
Persson B. 235, 241
Petrini B. 217
Pettersson F. 413
Pihet P. 281
Pirtoli L. 45
Plavšić B. 129
Poppe E. 155, 209
Prempree T. 195, 225
Pucci M. 499

Ranga Rao S. 191
Reddy K. S. 191
Rees G. J. G. 421
Rimsten Å. 373
Robert L. 191
Rönnbäck C. 121
Rosander K. 267
Rottoli M. L. 45

Saito S. 381
Salazar O. M. 225
Schumann J. 349
Scutari G. 427
Shibuya H. 39, 393
Shimchuk G. 267
Sigurdsson K. 181
Šikulová J. 325
Skog S. 17, 255, 331, 439
Southard M. 97
Srivastava K. K. 191
Stendahl U. 81, 401
Straus M. J. 407
Strender L.-E. 217
Strickland P. 385
Sullivan P. 407
Sundell-Bergman S. 455
Sundström C. 145, 289
Suzuki S. 39, 393
Sveinsson T. 369
Svensson H. 1, 139, 359

Takagi M. 39
Tjernberg B. 413
Tomio L. 427
Tribukait B. 17, 255, 331, 439
Tropé C. 181
Turalba C. I. C. 97

Ugarković B. 129

Vacek A. 325
Van Den Bogaert W. 33
Van Der Schueren E. 33
Venturelli E. 427
Vermund H. 155, 209
Vynckier S. 281

Wallgren A. 217
Wambersie A. 281
Wasserman J. 217
Watmough D. J. 11
Westcott W. B. 151
White R. L. 97
Wigg D. R. 49
Wilander E. 373
Wiley Jr A. L. 155, 209
Willén H. 401
Willén R. 81, 401
Wlodek D. 455

Yamashita S. 381
Yew D. T. 433

Zolotov V. 267
Zorat P. L. 427